EXHIBIT 3

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June 7, 1995

Assistant Commissioner for Patents
Washington, D.C.   20231

Sir:
    Transmitted herewith for filing is the patent application of
Inventor(s): Thomas Mark Levergood, Lawrence C. Stewart,
              Stephen Jeffrey Morris, Andrew C. Payne,
              George Winfield Treese and David K. Gifford
Title: INTERNET SERVER ACCESS CONTROL AND MONITORING SYSTEMS

[X] Specification, Claims, Abstract of the Disclosure

[X]   7   sheets of ~formal~/informal drawings. (Figs. _1-6._ _____

[ ] An assignment of the invention to _____

[ ] A verified statement to establish small entity status under 37 C.F.R. 1.9 and
37 C.F.R. 1.27.

[X] ~Executed~/Unexecuted Combined Declaration/Power of Attorney.

[ ] Other: _____

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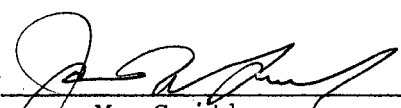   (Signature of person mailing paper or fee)

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BASIC FEE	▨▨▨▨▨	▨▨▨▨▨	▨▨▨▨▨	$ 365	▨▨▨▨▨	$ 730
TOTAL CLAIMS	49 - 20 =	* 29	X 11 =	$	X 22 =	$ 638
INDEP CLAIMS	11 - 3 =	* 8	X 38 =	$	X 76 =	$ 608
☐ MULTIPLE DEPENDENT CLAIM PRESENTED			+120 =	$	+240	$
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Respectfully submitted,

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Dated: 6/7/95

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CLAIMS

What is claimed is:

1. A method of processing service requests from a client
   to a server system through a network comprising:
5   forwarding a service request from the client to
   the server system; and
         appending a session identifier to the request and
   subsequent service requests from the client to the
   server system within a session of requests.

2. A method of processing service requests from a client
10   to a server system through a network comprising:
         forwarding a service request from the client to
   the server system;
         returning a session identifier from the server
15 system to the client; and
         appending the session identifier to the request
   and subsequent service requests from the client to the
   server system within a session of requests.

3. A method as claimed in claim 2 wherein the session
20   identifier includes a user identifier.

4. A method as claimed in claim 2 wherein the session
   identifier includes an expiration time for the
   session.

5. A method as claimed in claim 2 wherein the server
25   system records information from the session identifier
   in a transaction log in the server system.

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6. A method as claimed in claim 5 wherein the server
    system tracks the access history of sequences of
    service requests within a session.

7. A method as claimed in claim 6 wherein the server
    system tracks the access history to determine service
    requests leading to a purchase made within the session
    of requests.

8. A method as claimed in claim 5 wherein the server
    system counts requests to particular services
    exclusive of repeated requests from a common client.

9. A method as claimed in claim 5 wherein the server
    system maintains a data base relating customer
    information to access patterns.

10. A method as claimed in claim 9 wherein the information
    includes customer demographics.

11. A method as claimed in claim 2 wherein communications
    between the client and server system are according to
    hypertext transfer protocol and the session identifier
    is appended as part of a path name in a uniform
    resource locator.

12. A method as claimed in claim 1 wherein the server
    system assigns the session identifier to an initial
    service request to the server system.

13. A method as claimed in claim 1 wherein the server
    system subjects the client to an authorization routine
    prior to issuing the session identifier and the
    session identifier is protected from forgery.

Snba²⁷

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14. A method as claimed in claim 13 wherein the server
     system comprises plural servers including an
     authentication server which provides session
     identifiers for service requests to multiple servers.

 5   ~~15~~ 13. A method as claimed in claim ~~14~~ 12 wherein:
          a client directs a service request to a first
     server which is to provide the requested service;
          the first server checks the service request for a
     session identifier and only services a service request
10   having a valid session identifier, and where the
     service request has no valid identifier:
               the first server redirects the service
     request from the client to the authorization server;
               the authorization server subjects the client
15   to the authorization routine and issues the session
     identifier to be appended to the service request to
     the first server;
               the client forwards the service request
     appended with the session identifier to the first
20   server; and
               the first server recognizes the session
     identifier and services the service request to the
     client; and
          the client appends the session identifier to
25   subsequent service requests to the server system and
     is serviced without further authorization.

Sub a³⁷ 16. A method as claimed in claim 13 wherein the session
     identifier includes a user identifier.

17. A method as claimed in claim 13 wherein the session
30   identifier includes an expiration time for the
     ~~session~~.

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18.   A method as claimed in claim 13 wherein the session
      identifier provides access to a protected domain to
      which the session has access authorization.

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19.   A method as claimed in claim *16* wherein the session
5   identifier is modified for access to a different
      protected domain.

Snba4

20.   A method as claimed in claim 13 wherein the session
      identifier provides a key identifier for key
      management.

10   21.   A method as claimed in claim 13 wherein the server
      system records information from the session identifier
      in a transaction log in the server system.

22.   A method as claimed in claim 13 wherein communications
      between the client and server system are according to
15   hypertext transfer protocol and the session identifier
      is appended as part of a path name in a uniform
      resource locator.

23.   A method as claimed in claim 22 wherein the client
      modifies the path name of a current uniform resource
20   locator using relative addressing and retains the
      session identifier portion of the path name unmodified
      for successive requests in a session.

24.   A method as claimed in claim 2 wherein:
            the server system subjects the client to an
25   authorization routine prior to issuing the session
      identifier and the session identifier is protected
      from forgery, records information from the session
      identifier in a transaction log in the server system,
      tracks request paths relative to hypertext pages, and
30   maintains a data base relating customer demographics
      to access patterns;

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communications between the client and server
system are according to hypertext transfer protocol;
        the session identifier is appended as part of a
path name in a uniform resource locator; and
5   the client modifies the path name of a current
uniform resource locator using relative addressing and
retains the session identifier portion of the path
name unmodified for successive requests in a session.

25.   A method of processing service requests from a client
10   to a server system through a network comprising:
        responding to requests for hypertext pages
received from a client through the network by
returning the requested hypertext pages to the client;
        responding to further client requests related to
15   links in the hypertext pages; and
        tracking the further client requests related to a
particular hypertext page.

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26.   A method as claimed in claim 25 wherein the requests
include a common session identifier and the server
20   system tracks client requests within a session of
requests.

27.   A method of processing service requests from a client
to a server system through a network comprising
responding to requests for documents received from the
client through the network by returning the requested
documents wherein the documents are customized for a
particular user based on a user profile.

28.   A method of processing service requests from a client
to a server system through a network comprising:
30   responding to a request for a document received
from the client through the network;

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appending a session identifier, which includes a
user identification, to the request; and
returning the requested document wherein the
document is customized for a particular user based on
5   the user identification of the session identifier.

29.   A method of processing service requests from a client
to a server system through a network comprising:
responding to requests for information received
from the client through the network by returning the
10   requested information to the client; and
counting requests to particular information
exclusive of repeated requests from a common client.

30.   A method as claimed in claim 29 comprising excluding
requests made to information from the client within a
15   defined period of time.

31.   A method of processing service request for a document
received from a client through network in which the
document has been purchased by a user comprising:
responding to a request for a document received
20   from a client through the network in which the
document has been purchased by the user;
appending an authorization indicator to the
request; and
returning the requested document if the
25   authorization identifier indicates that the user is
authorized to access the document.

32.   A method as claimed in Claim 31, wherein the
authorization identifier is encoded within a session
identifier which is appended to the request.

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33.   A method of processing service requests from a client
to a server system through a network comprising:
responding to a request for a document received
from a client through the network;

5   appending a user identifier to the request;
returning the requested document to the client,
and;

charging the user identified in the identifier
for access to the document.

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10   *34.*   A method as claimed in Claim *33*, *30* wherein a user
identifier is encoded within a session identifier
which is appended to the request.

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35.   An information system on a network comprising:
means for receiving service requests from clients
15   and for determining whether a service request includes
a session identifier;
means for providing the session identifier in
response to an initial service request in a session;
and

20   means for servicing service requests from a
client which include the session identifier, the
subsequent service request being processed as a
~~session,~~

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36.   An information system as claimed in claim *35* *32* wherein
25   the means for providing the session identifier is in a
server system which services the requests.

Snb a17

37.   An information system as claimed in claim 36 further
comprising an authorization routine for authorizing
the client prior to issuing the session identifier and
30   means for protecting the session identifier from
~~forgery,~~

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38. An information server system as claimed in claim 35 further comprising a transaction log for recording information from the session identifier.

39. An information system as claimed in claim 38 further comprising means for tracking access history of sequences of service requests within a session.

40. An information system as claimed in claim 37 further comprising means for counting requests to particular services exclusive of repeated requests from a common client.

41. An information system as claimed in claim 38 further comprising a data base relating customer information to access patterns.

42. An information system as claimed in claim 41 wherein the information includes customer demographics.

43. An information system as claimed in claim 35 wherein communications between the client and server system are according to hypertext transfer protocol and the session identifier is appended as part of a path name in a uniform resource locator.

44. An information server on a network comprising:
     means for responding to requests for hypertext pages received from a client through the network by returning the requested hypertext pages to the client;
     means for responding to further request derived from links in the hypertext pages; and
     means for tracking the further requests derived from a particular hypertext page.

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45.   A server as claimed in claim 44 wherein the requests
      include a common session identifier and the server
      tracks requests within a session of requests.

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46.   A server as claimed in claim 45 further comprising a
5   data base relating customer demographics to access
      patterns.

47.   An information server on a network comprising:
          means for responding to requests for service
      received from a client through a network by returning
10   the requested service to the client; and
          means for counting requests to particular service
      exclusive of repeated requests from a common client.

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48.   A server as claimed in claim 47 wherein the requests
      include a common session identifier and the server
15   tracks requests within a session of requests.

45
49.   A server as claimed in claim 47 further comprising
      means for excluding requests made to a service from
      the client within a defined period of time.